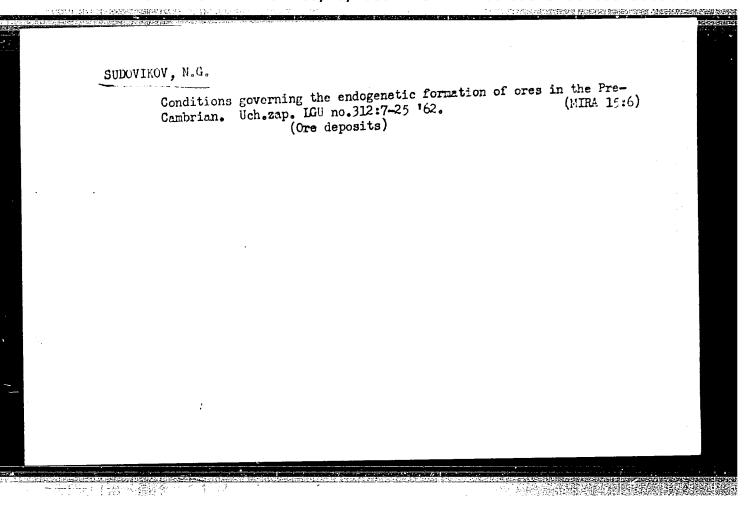
SUDOVIKOV, N.G.; NEYELOV, A.N.

Age of the Stanovoy complex. Trudy Lab.geol.dokem. no.12:257-28.0 (MINA 14:11)

(Stanovoy Range--Geological time)



SUDOVIKOV, N.G.; DRUGOVA, G.M.; KRYLOVA, M.D.; MIKHAYLOV, D.A.

Tectonic pattern of Archean formations in the Aldan mining region. Izv. AN SSSR. Ser.geol. 27 no.11:95-100 N '62. (MIRA 15:12)

1. Laboratoriya geologii dokembriya AN SSSR, Leningrad.
(Aldan Plateau—Geology, Structural)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

THE REPORT OF THE PROPERTY OF

KITSUL, Vasiliy Twanovich; SUDOVIKOV, N.G., prof., otv. red.; KALANTAROV, A.P., red. 1zd-va; GUSEVA, A.P., tekhn. red.

[Petrology of carbonate rocks in the Ladoga formation] Petrologiia karbonatnykh porod Ladozhskoi formatsii. Mskva, Izd-vo Akad. nauk SSSR, 1963. 170 p. (MIRA 16:5) (Ladoga Lake region—Rocks, Carbonate)

DZEVANSKIY, Yu.K.; DODIN, A.L.; KONIKOV, A.Z.; KRASNYY, L.I.; MAN'KOVSKIY, V.K.; MOSHKIN, V.N.; LYATSKIY, V.B.; NIKOL'SKAYA, I.P.; SALOP, L.I.; SALUN, S.A.; RABKIN, M.I.; RAVICH, M.G.; POSPELOV, A.G.; NIKOLAYEV, A.A.; IL'IN, A.V.; BUZIKOV, I.P.; MASLENNIKOV, V.A.; NEYELOV, A.N.; NIVITINA, L.P.; NIKOLAYEV, V.A. [deceased]; OBRUCHEV, S.V.; SAVEL'YEV, A.A.; SEDOVA, I.S.; SUDOVIKOV, N.G.; KHIL TOVA, V.Ya.; NAGIBINA, M.S.; SHEYNMANN, Yu.M.; KUZNETSOV, V.A.; KUZNETSOV, YU.A.; BORUKAYEV, R.A.; LYAPICHEV, G.F.; NALIVKIN, D.V., glav. red.; VERESHCHAGIN, V.N., Zam. glav. red.; MENNER, V.V., zam. glav. red.; OVECHKIN, N.K., zam. glav. red.[deceased]; SOKOLOV, B.S., red.; SHANTSER, Ye.V., red.; MODZALEVSKAYA, Ye.A., red.; CHUGAYEVA, M.N., red.; GROSSGEYM, V.A., red.; KELLER, B.M., red.; KIPARISOVA, L.D., red.; KOROBKOV, M.A., red.; KRASNOV, I.I., red.; KRYMGOL'TS, T.Ya., red.; LIBROVICH, L.S., red.; LIKHAREV, B.K., red.; LUPPOV, N.P., red.; NIKIFOROVA, O.I., red.; POLKANOV, A.A., red.[deceased]; RENGARTEN, V.P., red.; STEPANOV, D.L., red.; CHERNYSHEVA, N.Ye.; red.; SHATSKIY, N.S., red.[deceased]; EBERZIN, A.G., red.; SPIRNOVA, Z.A., red.izd-va; GUROVA, O.A., tekhn. red.

[Stratigraphy of the U.S.S.R. in fourteen volumes. Lower Pre-Cambrian] Stratigrafiia SSSR v chetyrnadtsati tomakh.

Nizhnii Dokembrii. Moskva, Gos. nauchno-tekhn, izd-vo litery po geologii i okhrane nedr. Pt. 1 (Asiatic part of the USSR) 1963. 396p.

SUDOVIKOV, N.G.

Regional metamorphism and geosynclinal development. Vop. magm.
(MIRA 16:8)

(Metamorphism (Geology))
(Geology, Structural)

SUDOVIKOV, N.G.; KHRENOV, P.M.

Sixth session of the Association on the Study of Crustal Subsurface
Zones. Izv. AN SSSR. Ser.geol. 28 no.6:133-136 Je '63.

(MIRA 16:8)

(Earth-Surface)

SUDOVIKOV, N.G., doktor geol.-mineral.nauk

Session of the International Association for the Study of the Sub-surface Zones of the Earth Crust. Vest.AN SSSR 33 no.2:102-104 F 163. (MIRA 16:2)

(Alps-Geology)

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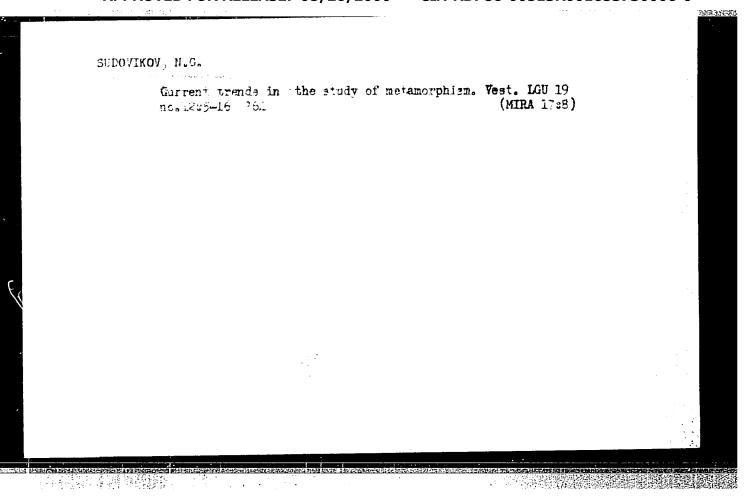
SUDOVIKOV, Nikolay Georgiyevich; SKORYNINA, N.P., red.; YELIZAROVA, N.A., tekhn. red.

[Regional metamorphism and some problems of petrology] Regional nyi metamorfizm i nekotorye problemy petrologii.

Leningrad, Izd-vo Leningr. univ., 1964. 549 p.

(MIRA 17:4)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"



SUDOVIKOV, Nikolay Georgiyevich, doktor geola-kiner, nauk;
CLEBOVITSKIY, Viktor Andreyevich; DRUGOVA, Galina
Mikhaylovna; KHYLOVA, Melitina Emitriyevna; KEYELOV,
Aleksandr Nikolayevich; SELOVA, Irina Sergeyevna;

[Geology and petrology of the southern margin of the Aldan Shield] Geologiia i petrologiia iuzhnogo obramleniia Aldanskogo shchita. [By] N.G.Sudovikov i dr. Moskva, Nauka, 1965. 289 p. (MIRA 18:3)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

RAVICH, M.G.; KLIMOV, L.V.; SOLOV'YEV, D.S.; SUPOVIKOV, M.G., doktor geol.-mineral. nauk, red.

[Pre-Cambrian of eastern Antarctica.] Dokembrii Vostochnci Antarktidy.

Moskva, Nedra, 1965 469 p. (Leningrad. Nauchno-issledovatel'skii institut geologii Arktiki. Trudy, vol. 138)

(MIRA 18:5)

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INTRODUCE M.D., keed, genlemmer, mark, red.; MEDELOY,

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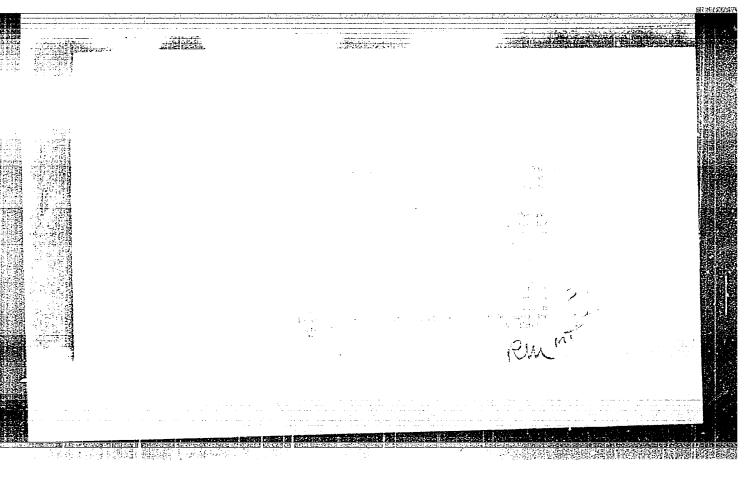
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H.d., S. N. Reproably, certamorized while linker forms.

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# SUDOVIKOVA, Ye.N. Mica from andalusite-corundum rocks of the Semiz-Bugu deposit. Zap.Vses.min.ob-va. 92 no.2:239-242 '63. (MIRA 16:5) 1. Leningradskiy gornyy institut. (Semiz-Bugu region---Mica)

 $\underline{L} \underline{14074.66} \quad \text{EWT}(1)/\text{EWT}(m)/\text{EWA}(d)/\text{EWP}(t)/\text{EWP}(z)/\text{EWP}(b) \quad \text{IJP}(c) \quad \text{JD}$ 

ACC NR: AP6003242

SOURCE CODE: UR/0020/65/165/006/1275/1277

AUTHOR: Lazarev, B. G.; Semenenko, Ye. Ye.; Sudovtsov, A. I.; Kuz'menko, V. M.

ORG: Physicotechnical Institute, Academy of Sciences UkrSSR (Fiziko-tekhnicheskiy institut Akademii nauk SSSR)

21, 44, 5 5

TITLE: Maximum critical magnetic fields in superconducting metals

SOURCE: AN SSSR. Doklady, v. 165, no. 6, 1965, 1275-1277

TOPIC TAGS: critical magnetic field, indium, tin, thallium, superconductivity, crystal lattice distortion

ABSTRACT: Lattice distortions are used as a criterion for measuring the critical magnetic fields and temperatures in indian, tin and thallium specimens produced by condensation on a glass substrate cooled by liquid helium. The critical magnetic field in the longitudinal direction was determined from the normal electrical resistance of the specimens at this field intensity. The highest critical magnetic fields are observed in freshly precipitated specimens, where the lattice is most strongly distorted. The critical magnetic fields in well annealed specimens is close to that

Card 1/2

UDC: 537.312.62

 SUDOVISOV, A. I.

USSR/Electricity
Superconductivity
Indium

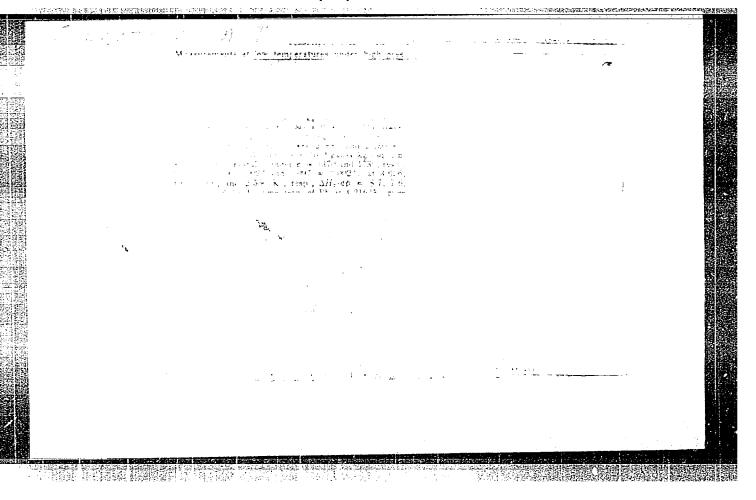
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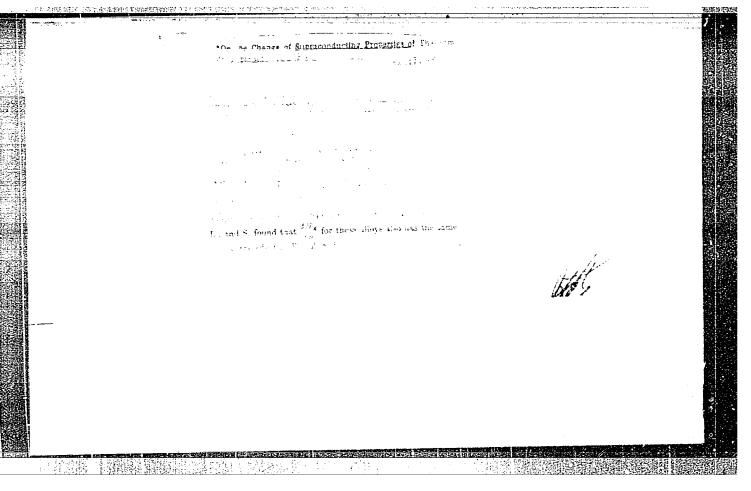
"Measurements Made Under Conditions of High Pressures and Low Temperatures. II. The Superconductivity of Indium and Tin at Pressures of 1370 and 1730 kg/cc Acting Equally From All Sides," L. A. Kan, B. G. Lazarev, A. I. Sudovtsov, Phys-Tech Inst, Acad Sci Ukrainian SSR, 8 pp

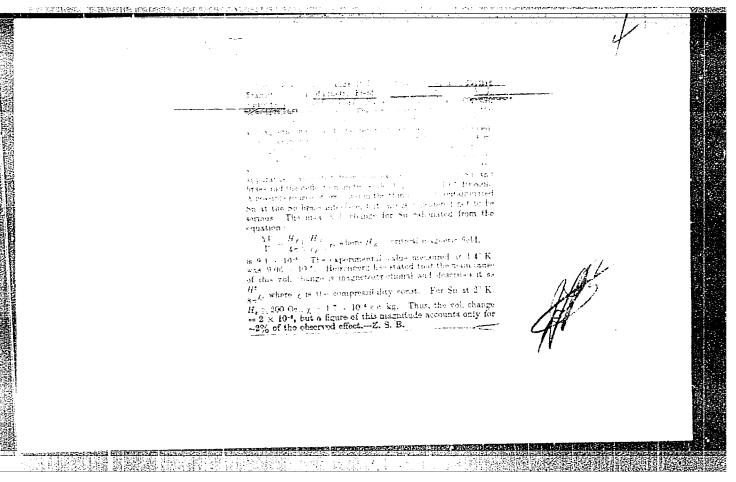
"Zhur Eksper i Tecret Fiz" Vol XVIII, No 9

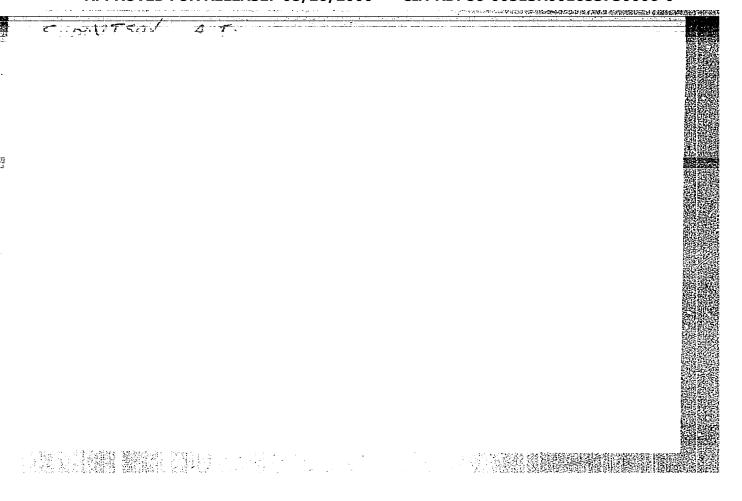
Studies in detail effect of given pressure on superconductivity of polycrystallic indium and monocrystallic tin. Establishes displacement of critical temperature  $T_k$  appropriate for given temperatures; for indium, 0.063 and 0.080° and for tin, 0.080 and 0.097°. In this range of pressures  $T_k$  and  $T_k$  are proportional to pressure. Displacement of critical magnetic field decreases with reduction of temperature. Considers reasons for different conversion intensities of these metals when free of pressure and when subjected to pressure. Shows considerable improvements in measuring methods.

PA 9/49T49









## "APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653730006-0

Superface, A.L.

AUTHORS:

Lazarev, B. G., Sudovtsov, A. I.,

56-4-42/54

AUTHURB:

Smirnov, A. P.

TITLE:

On the Supraconductivity of Beryllium Foils Which Condense on a Cold Underlayer (O sverkhprovodimosti plenok berilliya, skondensirovannykh na kholodnoy

podlozhke). (Letter to the Editor)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 4,

pp. 1059-1060 (USSR)

ABSTRACT:

Thin beryllium layers are by vaporizing condensed on the bottom of an evacuateable glass bulb. During the processes of vaporization and condensation the bottom of the glass bulb is dipped into liquid helium. The measurement of the supraconductivity takes place over two electrodes that are melted into the bottom. The thickness of the layer was about 10-6 cm. When the thickness increased to more than 10-5 cm, the layers came away from the underlayer. Fresh layers show supraconductive properties already at 4,20K. An accurate determination of the transition point was not yet made, but it is supposed to lie near 80K.

CARD 1/2

SUBOVESEVAA.

A UTHOR:

Kuznetsov. V.Ye.

SOV-26-58-11/9/49

THE REPORT OF THE PROPERTY OF

TITLE:

Investigations of the Magnetic Structure of Ferromagnetics (Issledovaniya magnitnoy struktury ferromagnetikov). An All-Union Conference in Krasnoyarsk (Vsesoyuznoye soveshchaniye v Krasnoyarske).

PERIODICAL: ABSTRACT:

Priroda, 1958, Nr 11, pp 53-55 (USSR) In June 1958 an All-Union meeting on the magnetic structure

of ferromagnetics was convoked by the Institut fiziki

AN SSSR (Institute of Physics of the AS USSR) and the Komissiya po magnetizmu Otdelmiya fiziko-matematicheskikh nauk AN SSSR (Commission for Magnetism of the Department of Physico-Mathematical Sciences of AS USSR) in Krasnoyarsk. The meeting was attended by representatives of scientific institutions of many principal cities of the USSR. A total of 32 papers were read. Ya.S. Shur of the Institut fiziki me-

tallov AN SSSR (Institute of the Physics of Metals, AS USSR) in Sverdlovsk summarized the magnetic structure of ferromagnetics. G.V. Spivak of the Moskovskiy gosudarstvennyy universitet (Moscow State University) told of present and future electron-optical methods of study of the domain structure of ferromagnetics. L.V. Kirenskiy and M.K. Sav-

chenko of the Institute of Physics of the AS USSR in Krasnoyarsk presented new data on the spatial distribution of the domain structure in samples of transformer iron.

Card 1/4

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SOV-26-58-11-9/49

Investigations of the Magnetic Structure of Ferromagnetics

Sudovtsev and Ye. Ye. Semenenko of the Fiziko-technicheskiy institut AN USSR (Physico-Technical Institute of AS UkrSSR) in Khar'kov read a paper on the influence of the domain structure on the electrical conductivity of very pure iron. G.V. Spivak, V.Ye. Yurasova and Ye.I. Shishkina of Moscow University presented an original method of exposure of magnetic heterogeneity in metal. T.I. Prasova of the Verkh-Isetskiy metallurgicheskiy zavod (Verkh-Isetskiy Metallurgical Plant) told of experimental work carried out in cooperation with V.V. Druzhinin on the application of the method of powder patterns to the study of the magnetic properties of transibmer steel. G.P. D'yakov of Moscow University spoke on the calculation of the domain structure in the theory of magnetization and magnetostriction of monocrystals. L.V. Kirpenskiy and I.F. Degtyarev of Krasnoyarsk read a paper on the temperature dependence of the domain structure of crystals of ferrosilicon. V.A. Zaykova and Ya.S. Shur reported on the results of a study of the influence of elastic stresses on the magnetic structure of the crystals of ferrosilicon. V.V. Veter of the Institute of Physics of the AS USSR in Krasnoyarsk reported on his original work conducted together

Card 2/4

SOV-26-58-11-9/49

Investigations of the Magnetic Structure of Ferromagnetics

with L.V. Kirenskiy on the determination of the width of the domain boundary; the method had been suggested by G.S. Krinchik. I.M. Puzey of the Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii, Moskva (Central Scientific Research Institute of Iron Metallurgy, Moscow) communicated the results of studies of the dynamics of the domain structure in a frequency range of up to several mhz. A.I. Drokin, D.A. Laptey, and R.P. Smolin (Krasnoyarsk) presented results of their studies of the temperature magnetic hysteresis on the points of the hysteresis loop. Nickel and iron-nickel alloy samples had been studied for this purpose. I.Ye. Startseva and Ya.S. Shur read a study of the structure of the residual magnetized ferromagnetic by aid of the method of powder patterns, and the change of this structure under the influence of a changing magnetic field. The papers of L.V. Kirenskiy, A.I. Drokin and V.S. Cherkashin dealt with the results of the influence of ultrasonic waves on the magnetic properties of ferromagnetics at various temperatures. Several papers were devoted to further investigations of the

Card 3/4

SOV-26-58-11-9/49

Investigations of the Magnetic Structure of Ferromagnetics

Barkhausen effect, the concept of which has been considerably extended by such Soviet researchers as R.V. Telesnin, Ye.P. Dzaganiya, V.F. Ivlev and others. Several papers dealt with transitional magnetic structure and temperature changes. The Physical Institute of the AS USSR in Krasnoyarsk, in 1957 opened the Stolby Game Reservation. The construction site of the Krasnoyarsk Hydroelectric Power Station was visited by the scientists.

1. Magnetostriction---Properties

Card 4/4

SoV/126-7-1-17/28 d Smirnov, A.P.

AUTHORS: Lazarev, B.G., Sniovtsov, A.I. and Smirnov, A.P.

TITLE: Plastic Deformation of Iron During the  $\gamma \rightarrow \infty$  Phase Transition (0 plasticheskoy deformatsii zheleza pri fazovom  $\gamma \rightarrow \infty$  perekhode)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 7, Nr 1, pp 122-127 (USSR)

ABSTRACT: In a number of papers (Refs.1-4) irreversible changes were detected in the sizes of iron specimens whilst passing through the of transition temperature range. Lately a paper (Ref.5) has appeared which deals with this particular phenomenon. The authors of the present paper give a cular phenomenon. The authors of the residual deformation few results of their investigation of the residual deformation of iron during transition through the phase change. This phenomenon has been detected dilatometrically. The experiments were carried out with Armco iron, and a few experiments with pure iron(made by the firm Hilger). All experiments were carried out in a vacuum of 10-0-10-7 mm measurements were carried out in a vacuum (see Fig.1). In

SOV/126-7-1-17/28 Plastic Deformation of Iron During the Y-> Phase Transition

> order to check the accuracy of the instruments, dilatometric curves (Fig.2) were plotted at low reating and cooling On plotting the curves under conditions of slow heating and cooling, residual changes in the length of the specimens are not observed. However, a residual change does appear if the experiment is carried out fairly rapidly. It was essential to find which stage of the temperature change is responsible for the phenomenon, heating or cooling. The dilatometric curves in Figs. 3 and 4, obtained for a suspended specimen furnished the answer to this. curves were taken on heating (plain circles) and on cooling (points) in the temperature range 800-1000°C. If heating is carried out at any speed and cooling is slow (less than 50°C per minute), the dilatometric curve is reversible (see Fig. 3) and no unusual effect appears. Only at a certain cooling rate does the residual elongation of the specimen (Fig. 4). Hence the effect investigated begin to show appears in the cooling stage. It is completely absent if the cooling range does not include the transition range

Card 2/5 of one modification to the other. The effect is repeated

SOV/126-7-1-17/28 Phase Transition Plastic Deformation of Iron During the  $\gamma \longrightarrow \propto$ 

of phases were both present, being divided by a boundary line. The boundary was perpendicular to the plate, and a change in current passed through the specimen caused it to be displaced along the specimen (the zone denoted by a dotted line in Fig. 7). As a result of numerous current modulations the plate became shorter and at the same time its width increased in those portions at which the boundaries The results of tests with a specimen were displaced. undergoing compression by its own weight, instead of elongation, gave an effect which was opposite in sign but the same in absolute magnitude. Fig. 8 illustrates the behaviour of the suspended specimen (upper curve) and a supported specimen (lower curve). Both curves of this figure were obtained at the same cooling rate, which was 90°C per minute. It appears that the fundamental reasons for this phenomenon are to be found in the volume change and in the neat given out during phase transformation. The actual effect depends very strongly on the experimental conditions, i.e. on the shape of the specimens and the

Card 4/5 conditions of temperature change.

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The influence of domain structure ... \$\frac{32190}{5/196/61/000/010/004/037}\$\$\$E194/E155\$\$\$

was measured with a low-resistance potentiometer type  $\Pi\Pi\PiH-1$  (PPGN-1). Graphs are given of  $\Delta R/R$  as a function of  $H(\Delta R=R_h-R)$ , where  $R_h$  is the resistance value in the demagnetised condition and R the resistance in a magnetic field H at the temperature of measurement. The data obtained permit more accurate use of the method of assessing metal purity by its resistance at very low temperatures. In the case of ferromagnetics it is necessary to allow for the relationship between the resistance, the measuring current and the magnetic field; the purity of a ferromagnetic material can be assessed most accurately with minimum current and a field sufficient for magnetic saturation of the specimen. 7 literature references. ASSOCIATION: Fiziko-tekhnich, in-t AN USSR, Khar'kov (Physicotechnical Institute AS Ukr.SSR, Khar'kov)

[Abstractor's note: Complete translation.]

Card 2/2

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SUDOVTSOV, A.I. [Sudovtsov, O.I.]

Helium liquifier of the Kharkov Cryogenic Laboratory of the institute of Technical Physics of the Ukrainian S.S.R. Ukr. fiz. zhur. 5 ao.4:560-567 Jl-4g '60. (MIRA 1):11)

1. Fiziko-tekhnicheskiy institut AH USSR.

(Helium) (Low temperature research)

(Refrigeration and refrigerating machinery)

S/056/60/039/004/045/048 B006/B056

24.5400 also 2209

AUTHORS: Lazarev, B. G., Semenenko, Ye. Ye., Sudovtsov, A. I.

TITLE: The Polymorphous Transformations of Lithium, Sodium, and  $\sqrt[h]{\text{Potassium in Films Condensed on Cold Backings}}$ 

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 4(10), pp. 1165 - 1166

TEXT: The authors give a report on investigations of low-temperature transformations of alkali metals by the method of low-temperature deformation in a highly undercooled state and on the R(T)-measurement of films. A plastic deformation of lithium and sodium at helium temperatures leads to a practically complete transition into a stable modification; in the deformation diagram such a transition manifests itself in the form of a break. For the purpose of observing the low-temperature polymorphism the method of R(T)-measurement is more suited and more sensitive; (R - electrical resistance of the metal film). The film is produced by allowing a metal to condense on backings having very low temperatures. In this manner, two modifications of bisnuth and iron and three of berellium and

Card 1/1

The Polymorphous Transformations of Lithium, Sodium, and Potassium in Films Condensed on Cold Backings

\$/056/60/039/004/045/048 B006/B056

gallium were discovered. The writers of the present "Letter to the Editor" employed this method themselves to investigate the low-temperature polymorphism of Li, Na, and K. The films were condensed onto glass backings at 4.2°K, and R(T) was measured during heating of the films up to 200°-300°K. The R(T)-curves have breaks that indicate the existence of three modifications. The R(T)-curve for K is given. The curve for Li from 160° to 170°K shows a sharp break (experiments carried out by plastic deformation furnished a transition temperature of about 143°-167°K). Na has a transition at ~80°K and K at ~55°-78°K. For Li and Na, breaks were still found at 80° and 40°K, respectively, and for K at ~20°K. These temperatures correspond to the transformation temperatures of metals. The experiments proved the existence of polymorphous transitions in Li and Na and, besides, led to the discovery of a low-temperature transition in K. Thus, it is also proved that the temperature of polymorphous transitions in these metals drops with decreasing Debye temperature. There are 1 figure and 9 references: 7 Soviet, 1 US, and 1 German.

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Card 2/2

24 5600 (1137 044) 24.2140 (1072,1055, 1395)

S/056/61/040/001/011/037 B102/B204

AUTHORS:

Lazarev, B. G., Semenenko, Ye. Ye., Sudovtsov, A. I.

TITLE:

Modifications of beryllium and iron in films, condensed on

a cold backing

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 40,

no. 1, 1961, 105-108

TEXT: It is well known that some metals, at least bismuth and beryllium, do not become superconductive in massive form down to  $10^{-2}$  OK. In form of thin films condensed at low temperatures – and that at relatively high temperatures (Bi  $\sim 6^{\circ}$ K, Be  $\sim 8^{\circ}$ K)—they become, however, superconductive. The superconductivity of beryllium films and their temperature dependence were investigated in order to find out whether the occurrence of new modifications might be responsible for this effect. As e.g. in the case of iron a low-temperature polymorphism is known; also the electrical conductivity of Be films was studied. In this connection, parallel studies were carried out with Cu films which had no low-temperature polymorphism. The films were measured at  $10^{-7}$  mm Hg in a helium cryostat. In the same device,

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S/056/61/040/001/011/037 B102/B204

Modifications of beryllium ...

also the temperature dependence (1.23-300°K) of electrical conductivity was measured; the heating rate of the films was 20K/min. The beryllium films showed, as had already been found in preliminary investigations (Ref. 4) at \$300K a polymorphic transition, and at 8-90K superconductivity. The superconductive phase remains conserved when the film is heated up to 30°K. Within this range (8.5-30°K) the temperature dependence of the electrical resistance was studied; these experiments showed that only when heated to 60°K, the superconductive phase (R(T) = const) vanishes comple tely. As the nature of the film is known to depend on whether condensation occurred from the solid or from the liquid phase (in the former case the film consists mainly of diatomic molecules, and in the latter an atomic film forms) it was studied to what extent this produces any effect upon superconductive properties. Films were produced by slow evaporation (from solid Be) and by quick evaporation (from liquid Be) and R(T) was studied. The films of the first kind (condensed on N2-cooled backings) most probably had a second superconductive modification, whose critical temperature was about 6°K and less, which, however, remained conserved up to 130°K. Also heating of the film to room temperature during 360 hr did not change anything in this effect: With cooling, superconductivity again occurred at

Card 2/4

Mod APPROVED FOR RELEASE: 08/26/2000 CIA/RDF86/00513R001653730006-0"

about 5°K. Fig. 4 shows the R(T)-curves of various Be films. The film condensed onto a helium-cooled backing from the solid phase was a mixture from two superconductive modifications. The first had a critical temperature of at 60°K; the critical temperature of the other modification was about ~6°K, modification remained conserved up to 30°K, and was completely vanished and with short (1-2 h) heating to room temperature (curvæ 3 and 3') this than in the case of condensation to a nitrogen-cooled backing, but remained superconductive also up to about 130°. The study of an iron film, condensed on a helium-cooled backing showed that at 40°K a polymorphic transition such transition. The existence of one- or two low-temperature modifications bismuth (1), iron (1), sodium (1), lithium (2), beryllium (2), are 6 figures and 9 references: 7 Soviet-bloc.

ASSOCIATION:

Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Institute of Physics and Technology of the Academy of Sciences Ukrainskaya SSR)

Card 3/4

3714

24.5600 5.4900 8/056/62/042/004/016/037 B152/B102

AUTHORS:

Semenenko, Ye. Ye., Sudovtsov, A. I.

TITLE:

Some features of the temperature dependence of the electrical

resistance of ferromagnetic metals at low temperatures

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42,

no. 4, 1962, 1022-1026

TEXT: A term with linear temperature dependence was found in the equation R = R(T) for iron and nickel in the liquid helium temperature range. Since this term decreases when a magnetic field is applied, it can be attributed to the scattering of the conduction electrons from spin waves. At helium temperatures R<sub>T</sub>/R<sub>0°C</sub> = R<sub>0°K</sub>/R<sub>0°C</sub> + AT + BT<sup>2</sup>. R<sub>0°K</sub>/R<sub>0°C</sub> is the residual resistance, A is non-zero only with ferromagnetic metals and describes the scattering from spin waves, B describes the electron-electron interaction. The degree of purity of the iron specimen was >99.99%, its diameter was  $\sim$  0.1 mm, and its length 38 mm. Its residual resistance was 3.9606.10-3. The grain size was approximately equal to the diameter. The terrestrial magnetic field was compensated. The resistance measurements were made with Card 1/3

S/056/62/042/004/016/037 B152/B102

SO

Some features of the temperature ...

the NNTH-1 (PPTN-1) compensator. Since the measuring current also changes the domains, the specimen was demagnetized after each measurement by a-c of decreasing amplitude. Between 1.23 and 4.2 the temperature dependence  $R_{T}/R_{00C} = 3.9606 \cdot 10^{-3} + 3.1 \cdot 10^{-6}T + 1.10 \cdot 10^{-6}T^{2}$ . In a field of 850 oe of the iron resistance is  $R_T/R_{00C} = 2.6058 \cdot 10^{-3} + 1.90 \cdot 10^{-6}T + 1.65 \cdot 10^{-6}T^2$ . The residual resistance decreases, since scattering from the domain boundaries is impossible in the magnetic field. At liquid hydrogen temperatures (14-20 K),  $R_{\rm T}/R_{\rm O}$  oc =  $3.9606 \cdot 10^{-3} + 1.64 \cdot 10^{-6} \text{ T}^2 + 4.02 \cdot 10^{-11} \text{ The last term describes the}$ electron scattering from lattice vibrations which was not observed at helium temperatures. The scattering from spin waves, however, is no longer observed. For nickel, at 14-20°K: R<sub>T</sub>/R<sub>0</sub>°C = 10.0986·10<sup>-3</sup> + 2.88·10<sup>-6</sup>T<sup>2</sup> + 4.85.10 The temperature dependence of platinum can be described by a purely quadratic law. Between 14 and  $20^{\circ}$ K, as in iron and nickel, scattering from lattice vibrations sets: in:  $R_{\rm T}/R_{\rm OOC} = 3.6486 \cdot 10^{-3}$ + 4.4.10 -6 T2 + 8.23.10 -10 5. Hence the electrical resistance of nonferromagnetic platinum shows no term dependent on linear temperature. B. C. Card 2/3

Some features of the temperature ...

8/056/62/042/004/016/037 B152/B102

Lazarev, M. I. Kaganov, and V. G. Bar'yakhtar are thanked for the discussion of the results. There are 3 figures. The English-language reference reads as follows: W. I. de Haas, I. H. de Boer, Physica, 1, 609, 1934; G. K. White, S. B. Woods, Phil. Trans. Roy. Soc., A 251, 273, 1959.

ASSOCIATION:

Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR

(Physicotechnical Institute of the Academy of Sciences

Ukrainskaya SSR)

SUBMITTED:

November 28, 1961

Card 3/3

s/056/62/042/006/012/047 B104/B102

AUTHORS:

Card 1/2

Ye. Ye., Sudovtsov, A. I., Shvets, A. D. Semenenko;

TITLE:

Temperature dependence of the electrical resistivity of iron

in the region of 0.38 to 4.2 ok

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42, PERIODICAL: no. 6, 1962, 1488 - 1489

TEXT: Temperatures were reduced by pumping out He 3 vapor from the experimental apparatus by means of a carbon absorption pump. For a measuring current of 150 ma and with compensated earth field, the residual electrical resistance of the very pure iron specimen is given by  $R(0^{\circ}K)/R(0^{\circ}C) = 3.9606 \cdot 10^{-3}$ ;  $R(0^{\circ}K) = 1.2595 \cdot 10^{-3}$  ohm. The voltages were measured to an accuracy of  $10^{-8}$  volt by using a compensation circuit. The temperature was ascertained to an accuracy of 10-20K from the helium pressure. The temperature dependence of the resistance can be represented by  $R = 3.9606 \cdot 10^{-3} + 3.1 \cdot 10^{-6}T + 1.1 \cdot 10^{-6}T^2$ . The linear term in R(T) is

CIA-RDP86-00513R001653730006-0" APPROVED FOR RELEASE: 08/26/2000

Temperature dependence of the...

S/056/62/042/006/012/047 B104/B102

explained by an additional scattering of the conduction electrons by the spin waves. There is 1 figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR

(Physicotechnical Institute of the Academy of Sciences

Ukrainskaya SSR)

THE RESIDENCE AND THE PROPERTY OF THE PROPERTY

SUBMITTED: January 30, 1962

Card 2/2

44246

S/056/62/043/006/061/067 B141/B102

242140

AUTHORS:

Lazarev, B. G., Lazareva, L. S., Sudovstov, A. I.,

Aliyev, F. Yu.

TITLE: Jump of the heat expansion coefficient of Nb 3 Sn for

superconducting transition

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 43,

no. 6(12), 1962, 2312-2313

TEXT: For measuring  $\Delta V/V$  at  $T_{\rm cr}$  ( $\approx 18^{\rm o}{\rm K}$ ), a highly accurate apparatus was designed whose sensitive part is a coil of bimetal strip 55 cm long. One end of this is stationary, and the other can turn when the volume of one metal changes with respect to the other, the torsion corresponding to the quantity to be measured. In this case the coil consisted of niobium coated with Nb<sub>3</sub>Sn (0.05 mm). The jump of the expansion coefficient of Nb<sub>3</sub>Sn at  $1.5\cdot 10^{-7}(\pm\ 10\%)$  deg was apparently as large as that of tin and lead. The theoretical value, determined thermodynamically, would appear to be higher by three powers of ten than that measured. This indicates that for Nb<sub>3</sub>Sn

Card 1/2

Jump of the heat expansion...

\$/056/62/043/006/061/067 B141/B102

and similar superconductors the magnetic field has great depth of penetration. The coefficients of expansion and compression of Nb3Sn and Nb also were measured in the temperature range  $300^{\circ}$  to  $2^{\circ}K$ . The expansion coefficient of Nb Sn was found to be only slightly larger than that of Nb, e.g. by  $3\cdot 10^{-6}$  at  $300^{\circ}$ K and by  $2\cdot 10^{-7}$  at  $2-4^{\circ}$ K, i.e., the thermal and elastic properties of Nb<sub>3</sub>Sn and Nb are very similar. There is 1 figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Physicotechnical Institute of the Academy of Sciences Ukrainskaya SSR)

SUBMITTED:

September 12, 1962

Card 2/2

EWT(1)/EWP(q)/EWT(m)/BDS/EEC(b)-2/ES(s)-2 AFFTC/ASD/ESD-3/ L 17219-63 AP3005302 IJP(C) Pt-1 99/ s/0056/63/045/002/0391/0392 ACCESSION NR: JD/JG/K AUTHORS: Lazarev, B. G.; Semenenko, Ye. Ye.; Sudovtsov, Critical magnetic fields of superconducting beryllium films TITLE: SOURCE: Zhur. eksper. i teoret. fiz., v. 45, no. 2, 1963, 391-392 TOPIC TAGS: superconductivity, beryllium film, critical magnetic field ABSTRACT: Preliminary results are reported on the destruction of superconductivity in beryllium films obtained by condensation on a substrate cooled with liquid helium. The film plane was parallel to the magnetic field. The measuring current in the film was perpendicular to the field. The destruction fields were found to be very large, with  $dH_{\rm c}/dT$  close to 33000 Oersted/degree ( $H_{\rm c}$  -- critical magnetic field, T -- temperature). It is tentatively concluded Card 1/2

L 17219-63

ACCESSION NR: AP3005302

that in the beryllium film the metal is in the maximally disordered state, meaning that the smallest parameter, such as the mean free path of the electrons, is smaller than the film thickness. Orig. art. has 1 figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Physicotechnical Institute, Academy of Sciences, Ukrainian SSR)

SUBMITTED: 17May63

DATE ACQ: 06Sep63

ENCL:

SUB CODE:

NO REF SOV: 007

OTHER: 002

Card 2/2

SEMENENKO, Ye.Ye.; SUDOVTSOV, A.I.; VOLKENSHTEYN, N.V.

Temperature variation of the electric resistance of cobalt in the region 1.3° to 4.2°K. Zhur. eksp. i teor. fiz. 45 no.5: 1387-1388 N '63. (MIRA 17:1)

1. Fiziko-tekhnicheskiy institut AN UkrSSR.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

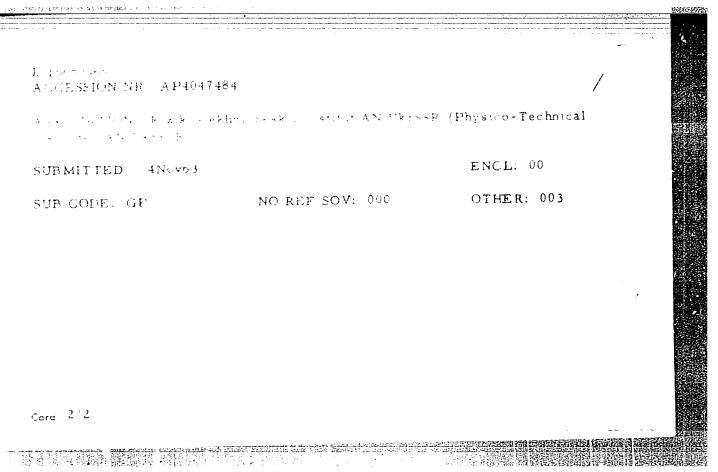
TOPIC TAGS: superconductivity, superconductive magnetic support

ABSTRACT: The instrument comprises a cryostat, a test superconductive magnetic support. A measuring system, a vibrator, and a contact device. The super transition of the contact device are placed in a Hertifiel divicistat, the measuring system, a vibrator, and a contact device. The super transition of the contact device are placed in a Hertifiel divicistat, the measuring system and vibrator are at room, temperature. The experimental error is the contact device in the contact device support to the contact device in the contact device support to the contact device in the contact device support to the contact device in the contact device support to the contact device in the contact device support to the contact device in the contact device support to the contact device in the contact device.

Cord 1/2

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CIA-RDP86-00513R001653730006-0

ACCESSION NR: AP4043622

8/0056/64/047/002/0486/0493

AUTHORS: Semenenko, Ye. Ye.; Sudovtsov, A. I.

TITLE: Effect of domain structure on the electric resistivity of iron, nickel, and cobalt at low temperatures

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 2, 1964, 486-493

TOPIC TAGS: electric resistivity, low temperature phenomenon, iron, nickel, cobalt, galvanomagnetic effect, domain structure, ferromagnetism

ABSTRACT: In view of the decrease in the electric resistivity of very pure iron when magnetized at low temperatures, previously observed by the authors (ZhETF, v. 35, 305, 1958), it would be expected that ferromagnetic metals experience an appreciable reduction in electric resistivity at low temperatures when magnetized to saturation. To check on this hypothesis, the authors measured the de-

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

ACCESSION NR: AP4043622

tered by the domain boundaries. An allowance for this effect is important in the determination of the purity of ferromagnetic materials from their residual electric resistance. "The authors thank be a considered of the results and for interest in the work." Orig. art. has: 5 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk UkrSSR (Physicotechnical Institute, Academy of Sciences, UkrSSR)

SUBMITTED: 29Feb64

ENCL: 00

SUB CODE: MM, EM

NR REF SOV: 005

OTHER: 007

ACCESSION NR: AP5001d20

AUTHOR: Aliyev, F. Yu.; Lazarev, B. G.; Sudortsov, A. L.

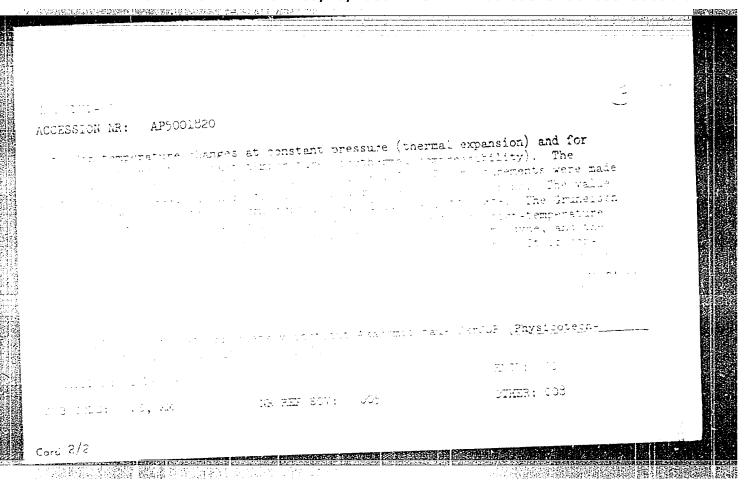
TITLE: Experimental determination of the electronic component of the coefficient of thermal expansion of iron

Thurnal exsperimental now i teoreticheskoy fiziki, v. 47, no. 6, 1964,

2022-2016

Thurnal exsperimental expansion coefficient, electronic component, low temperature reneares

1200-1218 Hespits are presented of an investigation of the thermal expansion of the coefficient, as a represent version of an earlier term temperatures, asiat as represent version of an earlier term temperatures, asiat as represent version of an earlier term.



KOLODEYEV, 1.D.; SUROVTSOV, A.I.

Apparatus for measuring the electromagnetic forces in superconducting magnetic supports. Prib. i tekh. eksp. 9 no.5:182-184 S-0 '64.

1. Fiziko-tekhnicheskiy institut AN UkrSSR.

SEMENENKO, Ye.Ye.; SUDOVTSEV, A.I.

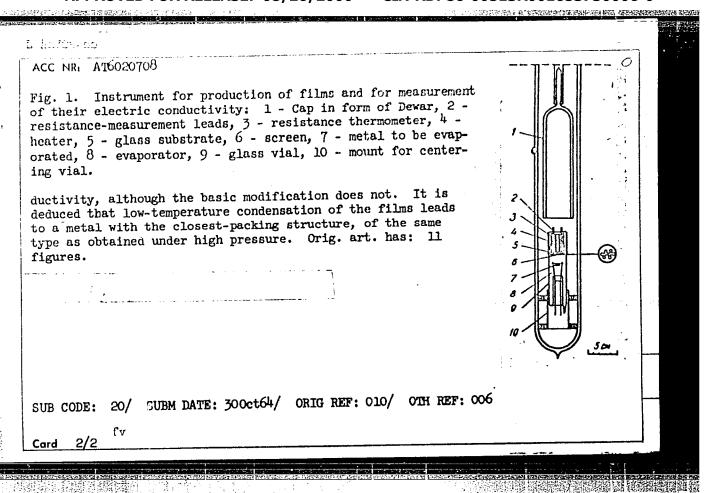
Effect of the domain structure on the electric resistance of iron, nickel and cobalt at low temperatures. Zhur. eksp. i teor. fiz. 47 no.21486-493 Ag 64. (MIRA 17:10)

I. Fiziko-tekhnicheskig institut AN UkrSSR.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

L 46705-66 EMT(m)/EMT(t)/ETI   IJP(c)   JD/JC/GD   SOURCE CODE: UR/0000/65/000/000/0097/0109	7]
AUTHOR: Semenenko, Ye. Ye.; Sudovtsov, A. I.  ORG: none  ORG: none	
TITLE: Polymorphism of metals in films obtained by low-temperature condensation SOURCE: AN UkrSSR. Fizika metallicheskikh plenok (Physics of metal films). Kiev, Naukova dumka, 1965, 97-109	
TOPIC TAGS: metal film, low temperature research, phase transition, superconductivity temperature dependence, resistivity  ABSTRACT: The authors report results of an investigation of low-temperature poly-	'
morphism of metals by low-temperature determined on the loss of the metal films cooled state. The metals tested were Cu, Li, Na, K, Be, Bi, and Fe. The metal films were condensed under various conditions on a surface cooled to 4.2 - 80K, and their characteristics were measured with specially developed apparatus (Fig. 1). The measurements consisted of determining the temperature dependence of the resistivity, the surements consisted of determining the temperature dependence of the resistivity, the time variation of the resistivity after condensation, and determination of the point of destruction of superconductivity. The tests showed that metal films deposited on very cold substrates have a very highly distorted structure. In some cases the disvery cold substrates have a very highly distorted structure. The phase-	
tortion is sufficient to produce a second modification of the metal. The phase- transition temperatures coincide with polymorphic-transformation temperatures obtaine by other methods. In some cases (Be, Bi), the second modification exhibits supercon-	ă
1/2	
Card 42	

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#### CIA-RDP86-00513R001653730006-0

CWT(1)/EWT(m)/T/EWP(t)/ETI JD/GD IJP(c) 35918-56 SOURCE CODE: UR/0000/65/000/000/0018/0022 ACC NR: AT6015895 Lazarev, B. G.; Semenenko, Te. Ye.; Sudovtsov, A. I.; Kuz'menko, V. M. ORG: Physicotechnical Institute, AN UkrSSR (Fiziko-tekhnicheskiy institut AN UkrSSR) TITLE: Effect of the degree of ordering on the superconducting properties of metals SOURCE: AN UkrSSR. Issledovaniye energeticheskogo spektra elektronov v metallakh (Study of the energy spectrum of electrons in metals). Kiev, Izd-vo Naukova dumka, 1965, 18-22 TOPIC TAGS: thallium, tin, superconductivity, temperature dependence, magnetic field measurement, resistivity ABSTRACT: The dependence of temperature in critical magnetic fields (Hp) and resistivities was studied in 100 Å condensed films of T1 and Sn. Amorphous structures in the condensed films representing extreme departures from crystalline equilibrium were restored by annealing, whereby the effect of lattice order on free electron conductivity was exhibited. As-condensed films had the largest values of  $H_{m{k}}$  when measured as a function of temperature from 4.2 to 1.5°K. Specimens annealed between 25 and 250°K had decreasing values of  $H_{\nu}$ . All curves obeyed the relation  $H_{K} = H_{K_{\bullet}} \left[ 1 - \left( \frac{T}{T} \right)^{2} \right]$ **Card** 1/2

### "APPROVED FOR RELEASE: 08/26/2000 CIA-RD

CIA-RDP86-00513R001653730006-0

AUTHORS:

Sudovtsov, A. M., Semenenko, Ye. Ye.

sov/56-35-1-56/59

TITLE:

The Influence of the Domain Structure on the Electric Resistance of Iron at Low Temperatures (Vliyaniye domennoy struktury na elektrosoprotivleniye zheleza pri nizkikh

temperaturakh)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958,

Vol. 35, Nr 1, pp. 305 - 307 (USSR)

ABSTRACT:

The authors measured the electric resistance of iron as a function of the longitudinal and of the transverse magnetic fields for the temperature interval between room temperature and that of liquid helium. The magnetization temperatures were obtained for the same temperatures. A sample of very pure iron was used for these investigations. It was 30 mm long and its transverse dimensions amounted to 0,1 mm; the grain dimensions are approximately equal to the diameter of the sample. The results of the measurements are given in 2 figures. The variation of the relative electric resistance  $\Delta R/R$  is plotted against the external field. There is  $\Delta R = R_H - R$  where R denotes the electric resistance

Card 1/4

The Influence of the Domain Structure on the Electric SOV/56-35-1-56/59 Resistance of Iron at Low Temperatures

effect which prevails in strong fields. The authors observed an influence of the measuring current on the electrical resistance. This resistance grew 20% when the measuring current was increased from 0,1 to 1000 mA. The authors thank B.G.Lazarev, S.V.Vonsovskiy, and M.I. Kaganov for the discussion of results and for their interest in this paper. There are 2 figures and 8 references, 4 of which are Soviet.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR

(Physico -technical Institute of the AS Ukrainskaya SSR)

SUBMITTED: April 21, 1958

Card 3/4

S/185/60/005/004/014/021 D274/D306

Helium liquefier...

the T-S diagram of I.L. Zel'manov (Ref. 8: Termodinamicheskiye svoystva heliya pri nizkikh temperaturakh, ZhETF, 14, 481, 1944; 14, 489; 1944). The working pressure of 30 atm is optimal (as follows from the T-S diagram of Ref. 8) for a hydrogen-bath temperature of The principal new feature of the liquefier consists in heat-exchangers in which a counter-flow of helium or of low-pressure hydrogen flows past the tubes with high-pressure helium. sures a sufficiently low pressure in the helium receiver and in the hydrogen bath even if the operating conditions of the liquefier are upset. Thereby, the servicing of the liquefier is facilitated and its efficiency increased. The design of the counter-flow heat-exchangers necessitates a division of the high-pressure helium flow into two parallel flows in the heat-exchangers I and II. Such a division simplifies the design of the heat-exchanger and provides for better temperature regulation, Fig. 1 shows the basic design of the liquefier. The liquefier consists of 2 parts: the outer part which is a Dewar mainly designed for heat insulation, and the heat-exchanger unit. The latter unit can be easily removed from

Card 2/4

estante a company

### "APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653730006-0

27954S/185/60/005/004/014/021 D274/D306

Helium liquefier ...

1950; H. Kammerlingh-Onnes, Gomm. Leiden, no. 158; Proc. Roy. Acad. zmsterdam, 29, 1176, 1956.

ASSOCIATION:

Fizyko-tekhnichnyy instytut Ab USSR (Physicotechnical Institute AS UkrSSR)

SUBMITTED:

November 19, 1959

Fig. 1: Basic design; of liquefier

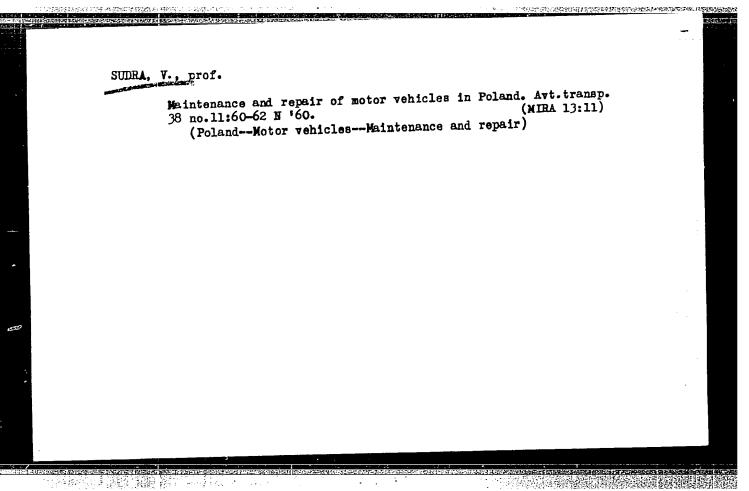
Card 4/4

SUDRA, Andrzej, mgr., inz.

A new standard regarding the quality control of textile fabrics and the conditions for its application. Normalizacja 29 no.10:471-474 161.

(Poland-Textile fabrics)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"



SUDRA, W.

"The Cooperation of the Automobile Industry with the Automobile Service Agencies" p. 98 (Technika Motoryzacina, Vol. 3, No. 4, April, 1953, Warszawa)

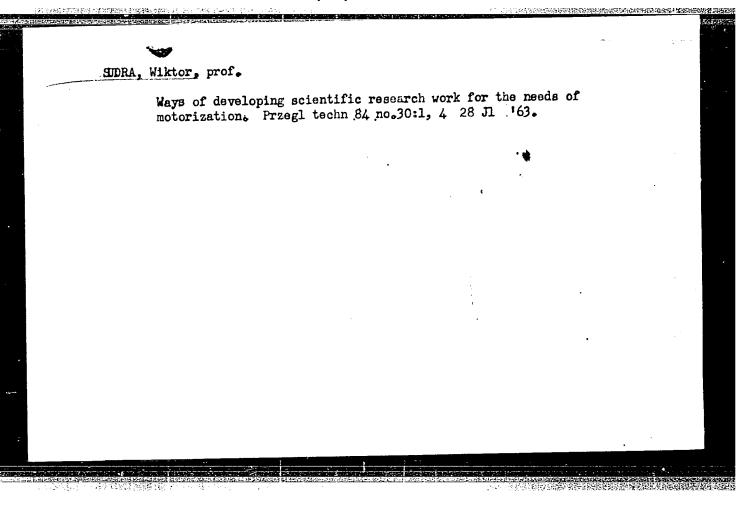
SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, February, 1954, Uncl.

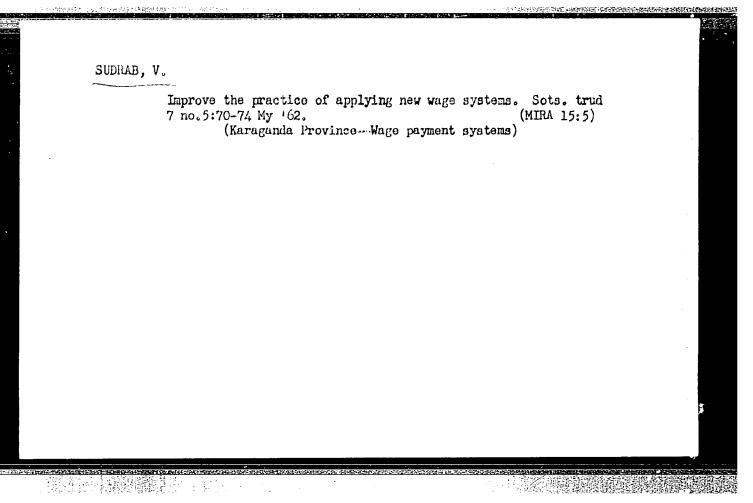
SUDRA, Wiktor, prof.

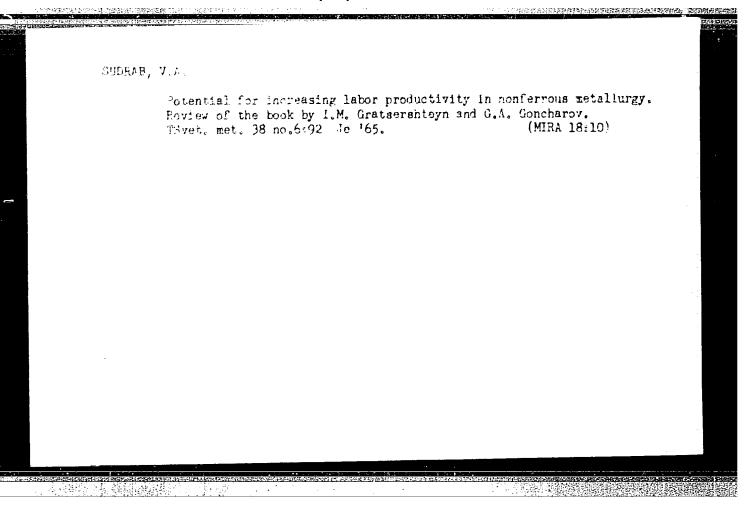
Training of engineers for the background of the motorization in the U.S.S.R. Przegl techn no.37:3-4 14 S '60

### "APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86

CIA-RDP86-00513R001653730006-0







RUDNITSKIY, Mikhail Livovich; SUDRAB, Viktor Aleksandrovich; SUROVA, V.A., red. izd-va; MINSKER, L.I., tekhn. red.; SHKLYAR, S.Ya., tekhn. red.

[Quide for workers occupied in the dressing and recovery of nonferrous metals and diamonds] Pamiatka dlia rabochikh, zaniatykh na obogashchenii i izvlechenii tsvetnykh metallov i almazov. Moskva, Gosgortekhizdat, 1962. 154 p. (MIRA 15:10)

(Nonferrous metals-Metallurgy) (Diamond cutting)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

RUDNITSKIY, Mikhail L'vovich; SUDRAB, Viktor Aleksandrovich; SUROVA, V.A., red. izd-va; MINSKER, L.I., tekhn. red.

[Handbook for miners engaged in underground mining of non-ferrous ores, diamonds, and mica]Pamiatka dlia rabochikh, zaniatykh na podzemnykh rabotakh po dobyche rud tsvetnykh metallov, almazov i sliudy. Moskva, Gosgortekhizdat, 1962. 153 p.

(MIRA 15:10)

(Mine management)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

\*\*RUDNITSKIY, Mikhail L'vovich; SUDRAB, Viktor Aleksandrovich; SUROVA, V.A., red. izd-va; MINSKER, L.I., tekhn. red.; LOMILINA, L.N., tekhn. red.

[Handbook for miners engaged in strip mining of nonferrous metal ores, diamonds, and mica] Pamiatka dlia rabochikh, zaniatykh na dobyche rud tsvetnykh metallov, almazov i sliudy otkrytym sposobom. Moskva, Gosgortekhizdat, 1962. 170 p. (MIRA 15:10)

(Mine management)

SUDRASKALNS, J.

Topics about people's friendship in Soviet Iatvian literature. p. 31. PADOMJU LATVIJAS KOMUNISTS, Riga. Vol. 11, no. 5, May 1956.

SOURCE:

East European Acession List (EEAL) Library of Congress Vol. 5, no. 8, August 1956.

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

KIRKHENSHTEYN, A., akademik, Geroy Sotsialisticheskogo Truda; KAL'NIN'SH, A.

[Kalnins A.], akademik; STRADIN'SH, P. [Stradins, P.], akademik;

SULMA BYALL. Tan [Sudrabkalns, Jānis], narodnyy, poet Latviyskoy SSR

MELEARDIS, K., khudozhnik; LAPIN'SH, A. [Lapins, A.], narodnyy

khudozhnik Latviyskoy SSR; YUROVSKIY, Yu., narodnyy artist SSSR;

AVOTS, A., fotolyubitel'; VARDAUNIS, E., khudozhnik, zasluzhennyy

deyatel'iskusstv Latviyskoy SSR; GAYLIS, V., kinooperator;

RIDZENIYEKS, V., fotograf; KALNYN'SH, E. [Kalnins, E.]; LOGANSON, R.

[Iohanson, R.], stareyshiy master khudozhestvennoy fotografii;

RIEKSTS, Ya. [Rieksts, J.], fotograf; LERKH, Yu.; FEDOSEYEV, B.,

fotograf; REYKHMAN, E., zasluzhennyy deyatel' kul'tury Latviyskoy SSR;

GROBMAN, Ya. [Grobman, J.], fotograf; OZOIS, Ya. [Ozols, J.], fotograf;

TIKNUS, B., fotograf; FAMEYEV, Ye., fotograf; RAKE, I., fotograf;

HERZTIS, A., fotograf; RAKE, K., fotograf; UPIT, V., fotograf;

SHADKHAN, M., fotolyubitel'; RITERS, G., fotolyubitel'.

Organize a society of Soviet photographers! Sov.foto 18 no.4:77 Ap 158.

(MIRA 11:6)

1.Rizhskaya kinostudiya (for Gaylis, Fedoseyev).3.AN Latviyskoy

1.Rizhskaya kinostudiya (for Gaylis, Fedoseyev).3.AN Latviyskoy
SSR (for Ridženieks). 4.Chlen-korrespondent Akademii khudozhestv
SSSR (for Kal'nynsh, E). 5.Zhurnal "Rigas foto" (for Rieksts, Gorman.
Ozols). 6.Latviyskoye teatral'noye obshchestvo (for Lerkh). 7.Direktor
Doma narodnogo tvorchestva imeni E. Melngaylisa (for Reykhman).
8.Predsedatel' Tvorcheskogo soveta (for Grobman). 9.Chlen Tvorcheskogo
soveta (for Ozols). 10.Gazeta "TSinya" (for Tiknus). 11.Fotokhronika
Latviyskogo telegrafnogo agentstva (for Fadeyev). 12.Institut
Latgiproprom (for Rake, I.).

(Photography—Societies)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

SOKOLOV, G.; SUDRAVSKIY, D.; PETROPAVIOVSKIY, V.

Focusing system with magnetic centering. Radio no.12:42 D '55.
(Television--Picture tubes)

(MIRA 9:4)

Sunday, De

AID P - 4453

Subject

: USSR/Radio

Card 1/1

Pub. 89 - 20/20

Author

: Klyukachev, V. and D. Sudravskiy

Title

: Magnetic leakage in television tuning

Periodical

: Radio, 5, 55, My 1956

Abstract

: Causes of magnetic dispersion in the transformer are explained. Recommendations are made to amateur television receivers builders on the placement of the transformer and the choke-filter to eliminate

horizontal bands. Two diagrams.

Institution: None

Submitted : No date

107-57-3-38/64

AUTHOR: Sokolov, G., and Sudravskiy, D.

TITLE: A Deflecting System for an Amateur TV Set

(Otklonyayushchaya sistema dlya lyubitel'skogo televizora)

PERIODICAL: Radio, 1957, Nr 3, pp 35-37 (USSR)

ABSTRACT: A simple deflecting system, suitable for Soviet kinescopes 35LK-2B, 43LK-2B, and 53LK-2B, is described in the article. The system is claimed to guarantee geometrical distortion under 2% and a negligible line ripple. Horizontal and vertical deflecting coils are mounted on a pressboard cylinder which is slipped over the neck of the kinescope. For purposes of adjustment, the cylinder can be moved around the axis of the kinescope. A detailed drawing of the coil-bearing cylinder is given. A coil-form drawing and coil-winding data are presented. By connecting pairs of coils in series or in parallel, the deflecting system can be used with various kinescopes and sweep generators. Connected in series, the horizontal deflecting coils have inductance of 37-40 mH and resistance of 50 ohms; the vertical deflecting coils have inductance of 50-55 mH and resistance of 40 ohms. Remedies against rhombic, trapezoidal,

Card 1/2

report submitted for the Conternial Meeting of the Scientific Technological Society of Ratio Engineering and Electrical Communications In. A. S. Popov (YEREX), Moscow, 8-12 June. 1959		В. С. Посония  — Сохранизаное систованое а верспетивые пропросной толожение в производименности, неука и технике в СССР.  В. Е. Короса  — Разроботке увефенароваленое телеовлюченого и зауконосто облугования различеного наменчения для телеовляния  Р. Е. Былая.  С. В. Гуртнен  — Прецессы накольения и коммутилия в видикоме и оприложе режиме  Р. Е. Былая.  С. В. Гуртнен  — О. инчения автерутры вумка на структуру вотсици автего угления автертов.  — 11 коми  — (с. 10 до. 16 часов)  В. А. Буразонов  — Судавана канера шветного телениаличи.  В. Валечен  — Аполартура вустного углениялична для Месподенте генература.	В. В. Ефинан  Соминентилеть гостей вытомен и эгоналога у пл энф подетурый застемий, риноваемную для стредарена ОНР и МККР  Г. В. Сомлее  Пресфедоватом стагарутом постатом телеварена (с. 18 до. 22 часов)  О. В. Евесинт-пакая  Обезай гомлание измерений в междугородиму бака, для дастного телевалена  А. В. Шомрия.  В. В. Сурамента  Пригодоватом устрейства пастомо телеварения ами выствого телеваления  А. В. Веле  Выбор размосительного белога паста для госттем имтенто и мерно-былим телеваления  А. Г. Вурамена В. В. Зустановаем  Корренция песамгонф пастом в кантими телеваления опески междуления при отредате пософильного  20	
	1	Ratio Engineering and Electrical Communicati		•

SOKOLOV, G., inzh.; SUDRAVSKIY, D., inzh.

"TSvet-l" amateur television receiver. Radio no.10:41-44 0 '61.

(MIRA 14:10)

(Color television)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

SOKOLOV, G., inzh.; SUDRAVSKIY, D., inzh.
"TSvet-1" television receiver. Radio no.12:25-32 D '61.
(MIRA 14:12)
(Color television)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

SOKOLOV, Georgiy Nikolayevich; SUDRAVSKIY, Dmitriy Dmitriyevich;
KUZ'MINOV, A.I., red.; LARIONOV, G.Ye., tekhn. red.

["TSvet-2" color television receiver] TSvetnoi liubitel'skii televizor "TSvet-2." Moskva, Gosenergoizdat, 1963. 39 p.

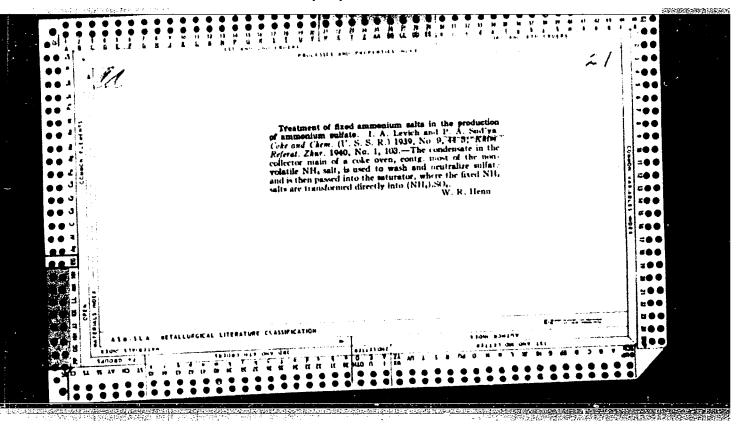
(Massovaia radiobiblioteka, no.469)

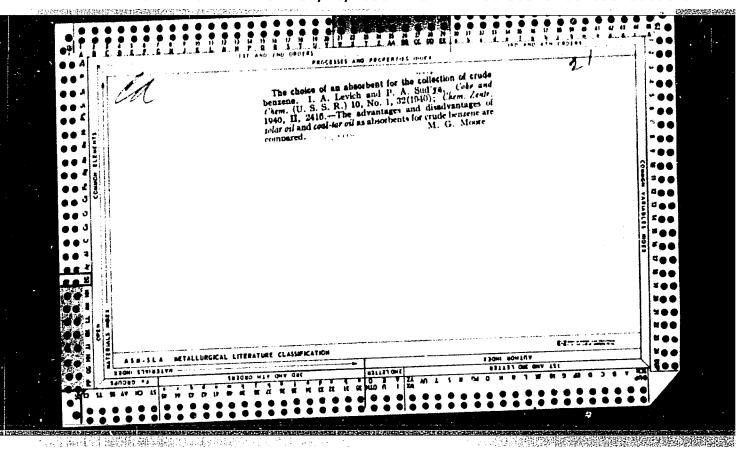
(MIRA 17:4)

BAROSU, Mircea, chimist diplomat; SUDRESAN, Sever, ing.; NASTASE, Constanta, ing.

Galvanic batteries of the highest quality manufactured, using the most active manganese dioxide. Electrotehnica 11 no.4: 141-149 Ap 263.

1. Sef al laboratorului de electrochimie la Institutul de Cercetari Electrotehnice (for Barosu). 2. Sef al sectiei de elemente galvanice la Intreprinderea Industriala de Stat Electro-Banat (for Sudresan). 3. Cercetatoare la laboratorul de electrochimie Institutul de Cercetari Electrotehnice (for Nastase).





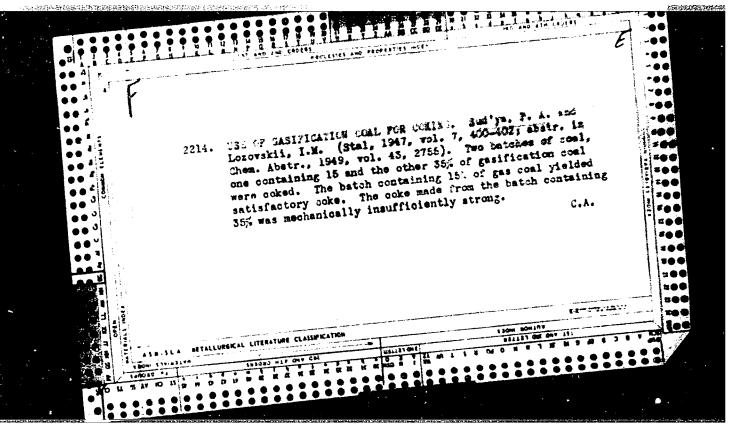
SUD'YA, P.A., inshener.

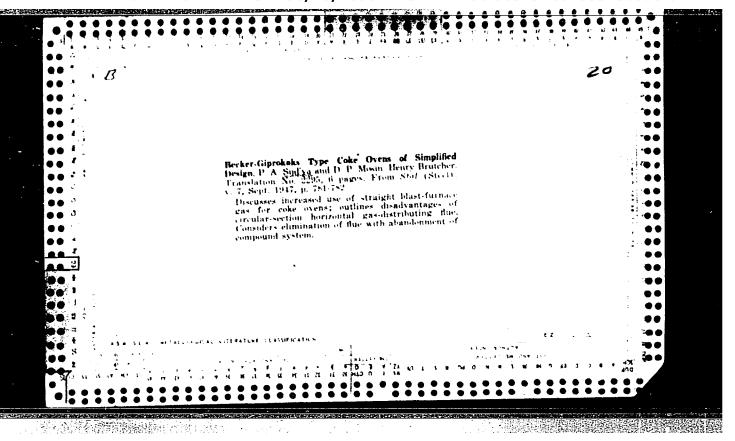
Comments on M.S.Griamova's article "Improving charge composition in eastern coke processing plants." Stal' 7 no.3:269 '47.

(MIRA 9:1)

1. Magnitogorskiy metallurgicheskiy kombinat.

(Wagnitogorsk--Coke industry)





SUDIYA, P. A.

- 這里於日本時間學歷春期 。

PA 18T30

USSR/Metallurgy Coke May 1947

"Utilization of Gas Coal for Making Coke," P. A. Sud'ya and I. M. Lozovskiy (MMK and VUKHIN) 3 pp

"Stal'" Vol VII, No 5

Introduction of 15 percent of gas coal in the first block of furnaces at the Magnitogorsk Metallurgical Factory did not lower the quality of the coke. Increase up to 35 percent of gas coal gave coke with noticeable lowering of mechanical stability.

1**8T**36

grotti, Y. i.

TA COS

USER/Ingineering

Sep 1947

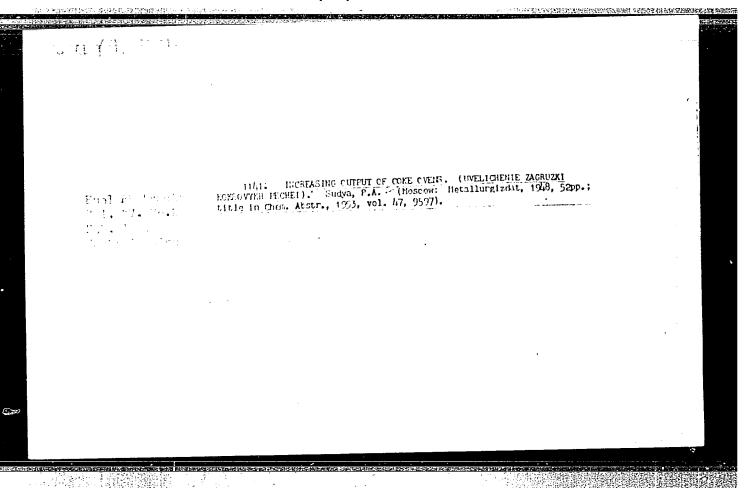
Furnaces, Coke Furnaces, Blast

"Coke Furnaces Using the Bekker-Hyprocoke System Without a Gas Conduit Zone," P. A. Sud'ya, D. P. Mosin, Engrs, Magnitogorsk Combine, 1 p

"Stal'" No 9

The change, in furnaces with two-time heating, from coke to blast furnace gas has greatly simplified and cheapened the construction of furnaces. Also in matters relating to the dependable balance of blast furnace gas it is possible to eliminate its weakest point, the gas conduit zone, and thus increase the operation period of the furnaces.

24534



SUD'YA, P. A.

"Bifect of Karaganiz Coal on the Quality of Metallurgical Coke", Stal', No. 3, 1948.

Engr., "agmitogorsk Combine. -c1948.

3/130/62/000/001/003/00<sup>4</sup> A006/A101

AUTHORS:

Leont'yev, S.A., Senior Master, Sud'ya, V.P. Chief of Shift

Experiences in assimilating the large strip rolling mill 2500

TITLE:

PERIODICAL:

Metallurg, no. 1, 1962, 27 - 30

Information is given on the operation of rolling mill 2500 intended for hot rolling of 115-250 mm thick, 1,000-1,600 mm wide slabs into 1.5-10 mm thick and up to 2,350 mm wide sheets. Advantages and deficiencies of the mill are described. Among the advantages are: fuelling of the 5 continuous preheating furnaces with natural gas; the use of an evaporation cooling system, the use of liquid-friction bearings for the backing rolls of the roughing section; reductorless drive of the seventh to tenth stands of the finishing section. De ficiencies are: poor wear resistance of bottom girders of furnaces; insufficient insulation of evaporation pipes; unsatisfactory arrangement of charging devices. In the roughing section the authors criticize: insufficient power of the scale-breaker driving motor; the use of cast iron working rolls instead of steel ones; large interaxial distance between the rolls of the first vertical and second roughing stand; cast iron parts of transmission gears on the main

card 1/2

ISUPOV, G.F.; SUD'YA, V.P.; DENISOV, P.I.

Mechanizing slab removal from holding furnaces. Metallurg (MIRA 15:7) 7 no.6:32-33 Je '62.

1. Magnitogorskiy metallurgicheskiy kombinat i Magnitogorskiy gosudarstvennyy soyuznyy institut po proyektirovaniyu metallurgicheskikh zavodov.

(Furnaces, Heating-Maintenance and repair)
(Materials handling)

USSR/Chemistry - Alkaloids Jun 52	
"The Alkaloids of Haplophyllum perforatum, H. pedi- cellatum, H. dubium, H. bucharicum, H. versicolor," S. Yunusov, G. P. Sudyakin, Lab of Alkaloid Chem, Inst of Chem, Acad Sci Uzbek SSR, Tashkent	
"Zhur Obsheh Khim" Vol XXII, No 6, pp 1055-1061	
tained the following alkaloids from the is, and young stems of Haplophyllum peris. B.) Kar.et Kir.: scimmianine, a cryst	2.7.251
mp 110-111°, and the new alkaloid haploperine C <sub>1</sub> 5H <sub>13</sub> NO <sub>4</sub> (OCH <sub>3</sub> ) <sub>2</sub> , mp 155-156°. Obtained the hydrochloride of haploperine (mp 129-131°) and hexahydrophaploperine C <sub>17</sub> H <sub>25</sub> NO <sub>6</sub> (mp 159-160°). Haploperine C <sub>18</sub> H <sub>25</sub> NO <sub>6</sub> (mp 159-160°).	, administrativi i inglindadi.
USSR/Chemistry - Alkaloids (Contd) Jun 52	e induitable
reacts with acids to form $C_1$ 7 $H_1$ 7 $NO_5$ , mp 138-139°. Under the action of $CH_3$ 1 it forms the isomeric compd $C_1 \mu_{13}^H O_{\mu} (= CO)$ (=N-CH <sub>2</sub> ) (OCH <sub>3</sub> ). It obviously is a quinoline deriv. The alkaloids are contained mostly in the leaves and seeds. Investigated the alkaloid	<del>drived Billerik Roo</del>
	<del>Merica synthic districts p</del>
	u-series and series of the
Sutvakin, G	TO STATE OF THE PROPERTY OF THE PARTY OF THE

GUSETNOV, A.M.; ASADOV, I.G.; PEYSIKOV, Yu.V.; SHATSOV, A.N.; SUDZHADINOV, R.Ya.; ALIYEV, M.B.

Experience in using the marine radiometric survey method in the Azerbaijan S.S.R. Sov.geol. 6 no.3:124-133 Mr 163. (MIRA 16:3)

l. Azerbaydzhanskiy nauchno-issledovateliskiy institut po dobyche nefti.

(Azerbaijap--Radioactive prospecting)

SPIRIN, B.G., kand.med.nauk; SUDZHAL'SKAYA, L.P.

Disorders of unconditioned vascular reactions in tumors of the diencephalic region. Probl.sovr.neirokhir. 3:301-310 '59'.

(DIENCEPHALON—TUMORS) (REFLEXES)

(BLOOD—CIRCULATION, DISORDERS OF)

SUDZHALISKAYA, L.P. Study of the dynamics of vascular reactions in a cute irritation of the diencephalic area during neurosurgical operations. Probl. sovr.neirokhir. 4:194-202 162. (MIRE 16:2)

sovr.neirokhir. 4:194-202 162. (DIENCEPHALON—SURGERY) (PITUITARY BODY—SURGERY)

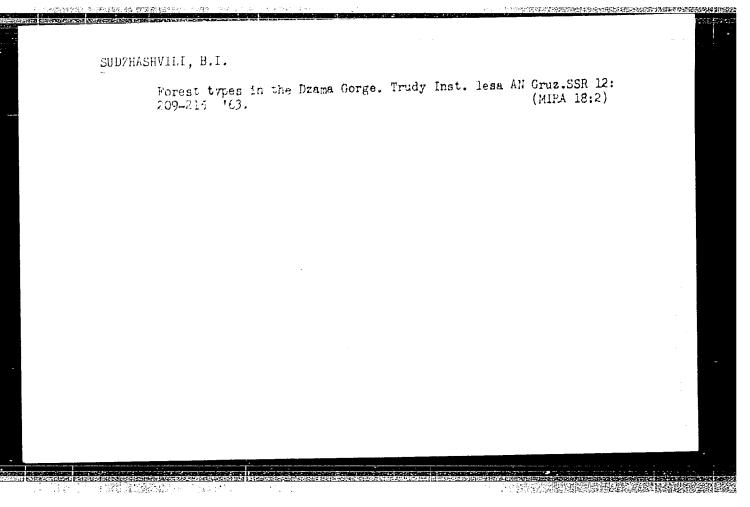
APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653730006-0"

Statertation: "High countain forests of the Hasherskiy dayon and Their Mognodic Laportance." Jane Sgr ooi, Meorgian Agricultural Inst, 20 May 34. (Marya Tostoka, 76) 34; 20,7, 19 (ct 1954)

# Forest types in the eastern extremity of the Trialet Range and their natural reproduction. Trudy Inst.lesa AN Gruz.SSR 11:169-182 '62. (MIRA 16:2) (Trialet Range...Forest ecology) (Trialet Range...Forest reproduction)

SUDZHASHVILI, B.I.

Types of beech forests in the Trialet Range. Trudy Inst. less AN Gruz. SSR 10:161-171 '62. (MIRA 17:3)



SUDZHAYEV, G.A.

Hase of culturing diphtheria bacilli. Lab.delo 3 no.6:27-28 N-D '57.
(MIRA 11:2)

1. Iz sanitarno-epidemiologicheskoy stantsii Stalinskogo rayona

g. Minska.

(CORYNERACTERIUM DIPHTHERIAE)